

PTO/SB/21 (09-04)

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**TRANSMITTAL  
FORM**

(to be used for all correspondence after initial filing)

<b>TRANSMITTAL FORM</b>  (to be used for all correspondence after initial filing)	Application Number	10/003468-Conf. #4328
	Filing Date	October 23, 2001
	First Named Inventor	Fatemeh MOJTABAI
	Art Unit	1631
	Examiner Name	M. C. Lee
Total Number of Pages in This Submission	Attorney Docket Number	FMI-001

**ENCLOSURES (Check all that apply)**

<input checked="" type="checkbox"/> Fee Transmittal Form  <input type="checkbox"/> Fee Attached  <input type="checkbox"/> Amendment/Reply  <input type="checkbox"/> After Final  <input type="checkbox"/> Affidavits/declaration(s)  <input type="checkbox"/> Extension of Time Request  <input type="checkbox"/> Express Abandonment Request  <input checked="" type="checkbox"/> Information Disclosure Statement  <input type="checkbox"/> Certified Copy of Priority Document(s)  <input type="checkbox"/> Reply to Missing Parts/Incomplete Application  <input type="checkbox"/> Reply to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Drawing(s)  <input type="checkbox"/> Licensing-related Papers  <input type="checkbox"/> Petition  <input type="checkbox"/> Petition to Convert to a Provisional Application  <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address  <input type="checkbox"/> Terminal Disclaimer  <input type="checkbox"/> Request for Refund  <input type="checkbox"/> CD, Number of CD(s) _____  <input type="checkbox"/> Landscape Table on CD	<input type="checkbox"/> After Allowance Communication to TC  <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences  <input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief)  <input type="checkbox"/> Proprietary Information  <input type="checkbox"/> Status Letter  <input checked="" type="checkbox"/> Other Enclosure(s) (please identify below):  Return Receipt Postcard Copies of Seventy-Eight (78) References
<b>Remarks</b>		

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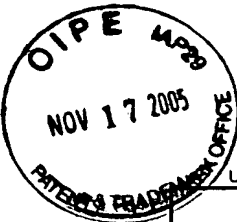
Firm Name	LAHIVE & COCKFIELD, LLP		
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Date	November 14, 2005	Reg. No.	53,623

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<b>Effective on 12/08/2004.</b> <b>Fees pursuant to the Consolidated Appropriations Act, 2005 (H.R. 4818).</b> <b>FEE TRANSMITTAL</b> <b>For FY 2005</b>		<b>Complete if Known</b>		
<input checked="" type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27		Application Number	10/003468-Conf. #4328	
		Filing Date	October 23, 2001	
		First Named Inventor	Fatemeh MOJTABAI	
		Examiner Name	M. C. Lee	
		Art Unit	1631	
TOTAL AMOUNT OF PAYMENT	(\$)	180.00	Attorney Docket No.	FMI-001

**METHOD OF PAYMENT** (check all that apply)

☐ Check   ☐ Credit Card   ☐ Money Order   ☐ None   ☐ Other (please identify): \_\_\_\_\_

☒ Deposit Account   Deposit Account Number: 12-0080   Deposit Account Name: Lahive & Cockfield, LLP

For the above-identified deposit account, the Director is hereby authorized to: (check all that apply)

☒ Charge fee(s) indicated below   ☐ Charge fee(s) indicated below, except for the filing fee

☒ Charge any additional fee(s) or underpayment of fee(s) under 37 CFR 1.16 and 1.17   ☒ Credit any overpayments

**FEE CALCULATION**

**1. BASIC FILING, SEARCH, AND EXAMINATION FEES**

Application Type	FILING FEES		SEARCH FEES		EXAMINATION FEES		Fees Paid (\$)
	Fee (\$)	Small Entity Fee (\$)	Fee (\$)	Small Entity Fee (\$)	Fee (\$)	Small Entity Fee (\$)	
Utility	300	150	500	250	200	100	
Design	200	100	100	50	130	65	
Plant	200	100	300	150	160	80	
Reissue	300	150	500	250	600	300	
Provisional	200	100	0	0	0	0	

**2. EXCESS CLAIM FEES**

Fee Description	Small Entity	
	Fee (\$)	Fee (\$)
Each claim over 20 (including Reissues)	50	25
Each independent claim over 3 (including Reissues)	200	100
Multiple dependent claims	360	180

**Total Claims**   **Extra Claims**   **Fee (\$)**   **Fee Paid (\$)**   **Multiple Dependent Claims**

\_\_\_\_\_ - = \_\_\_\_\_ x \_\_\_\_\_ = \_\_\_\_\_   **Fee (\$)**   **Fee Paid (\$)**

**Indep. Claims**   **Extra Claims**   **Fee (\$)**   **Fee Paid (\$)**

\_\_\_\_\_ - = \_\_\_\_\_ x \_\_\_\_\_ = \_\_\_\_\_

**3. APPLICATION SIZE FEE**

If the specification and drawings exceed 100 sheets of paper (excluding electronically filed sequence or computer listings under 37 CFR 1.52(e)), the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).

**Total Sheets**   **Extra Sheets**   **Number of each additional 50 or fraction thereof**   **Fee (\$)**   **Fee Paid (\$)**

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**4. OTHER FEE(S)**

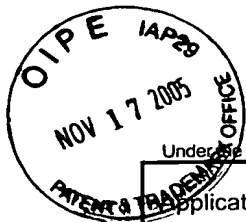
Non-English Specification, \$130 fee (no small entity discount)

Other (e.g., late filing surcharge): 1806 Submission of an Information Disclosure Statement   **Fees Paid (\$)**   180.00

<b>SUBMITTED BY</b>			
Signature		Registration No. (Attorney/Agent)	53,623
Name (Print/Type)	Cynthia M Soroos	Telephone	(617) 227-7400
		Date	November 14, 2005

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PTO/SB/92 (09-04)

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Application No. (if known): 10/003468

Attorney Docket No.: FMI-001

## Certificate of Mailing under 37 CFR 1.8

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Date

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Cynthia M. Soroos

Typed or printed name of person signing Certificate

53,623

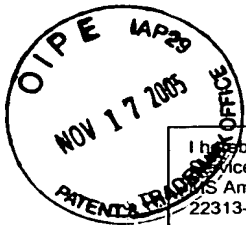
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Dated: November 14, 2005

Signature:

*Cynthia M. Soroos*  
(Cynthia M. Soroos)

Docket No.: FMI-001  
(PATENT)

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Patent Application of:  
Fatemeh Mojtabai

Application No.: 10/003468

Confirmation No.: 4328

Filed: October 23, 2001

Art Unit: 1631

For: ORDERED TWO-AND THREE-  
DIMENSIONAL STRUCTURES OF  
AMPHIPHILIC MOLECULES

Examiner: M. C. Lee

**INFORMATION DISCLOSURE STATEMENT (IDS)**

MS Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

Pursuant to 37 CFR 1.56, 1.97 and 1.98, the attention of the Patent and Trademark Office is hereby directed to the references listed on the attached PTO/SB/08. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

This Information Disclosure Statement is filed more than three months after the U.S. filing date, and after the mailing date of the first Office Action on the merits, but before the mailing date of a Final Office Action or Notice of Allowance (37 CFR 1.97(c)).

Applicant has not submitted copies of each cited U.S. patent and U.S. patent application as required by 37 CFR 1.98(a)(2)(i), amended October 2004, as the U.S. Patent and Trademark Office has waived this requirement for all U.S. patent applications. Applicant submits herewith copies of foreign and non-patents in accordance with 37 CFR 1.98(a)(2).

11/18/2005 CNGUYEN 00000104 120080 10003468

01 FC:1806 180.00 DA

In accordance with 37 CFR 1.97(g), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made or that no other material information as defined in 37 CFR 1.56(a) exists. In accordance with 37 CFR 1.97(h), the filing of this Information Disclosure statement shall not be construed to be an admission that any patent, publication or other information referred to therein is "prior art" for this invention unless specifically designated as such.


It is submitted that the Information Disclosure Statement is in compliance with 37 CFR 1.98 and the Examiner is respectfully requested to consider the listed references.

Please charge our Deposit Account No. 12-0080 in the amount of \$180.00 covering the fee set forth in 37 CFR 1.17(p). The Director is hereby authorized to charge any deficiency in the fees filed, asserted to be filed or which should have been filed herewith (or with any paper hereafter filed in this application by this firm) to our Deposit Account No. 12-0080, under Order No. FMI-001. A duplicate copy of this paper is enclosed.

Dated: November 14, 2005

CMS/GAD/mch

Respectfully submitted,

By   
Cynthia M. Soroos  
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Attorney/Agent For Applicant



PTO/SB/08a/b (07-05)

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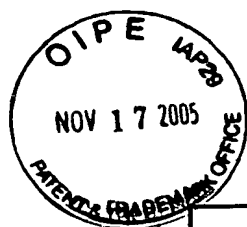
Substitute for form 1449A/B/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)				<b>Complete if Known</b>	
				Application Number	10/003468-Conf. #4328
				Filing Date	October 23, 2001
				First Named Inventor	Fatemeh MOJTABAI
				Art Unit	1631
				Examiner Name	M. C. Lee
Sheet	1	of	4	Attorney Docket Number	FMI-001

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
	A1*	US-4,489,133	12-18-1984	Kornberg	
	A2*	US-5,044,308	09-03-1991	Mojtabaj	
	A3*	US-5,223,409	06/1993	Ladner et al.	
	A4*	US-5,514,501	05-07-1996	Tarlov	
	A5*	US-5,970,381	10-19-1999	Ohno et al.	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				
	B1	EP-0431400-A1	06-12-1991	BASF AG		
	B2	EP-0274824-B1	01-29-1992	Ribi, Hans O.		
	B3	WO-95/09058-A2	04-06-1995	Technobiochip		
	B4	WO-9610178-A1	04-04-1996	Pharmacia Biosensor AB		
	B5	WO-00/04382-A1	01-27-2000	Zyomyz, Inc.		

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. \* CITE NO.: Those application(s) which are marked with an asterisk (\*) next to the Cite No. are not supplied (under 37 CFR 1.98(a)(2)(iii)) because that application was filed after June 30, 2003 or is available in the IFW. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	C1	"The Shape Shifting Business," <i>Nature Biotechnology</i> , Vol. 18:905 (2000)	
	C2	Amann, Egon, et al., "Tightly Regulated <i>tac</i> Promoter Vectors Useful for the Expression of Unfused and Fused Proteins in <i>Escherichia coli</i> ," <i>Gene</i> , Vol. 69:301-315 (1988)	
	C3	Baldari, C., et al., "A Novel Leader Peptide Which Allows Efficient Secretion of a Fragment of Human Interleukin 1 $\beta$ in <i>Saccharomyces cerevisiae</i> ," <i>The EMBO Journal</i> , Vol. 6(1):229-234 (1987)	
	C4	Bell, Christine M., et al., "Materials Chemistry of Organic Monolayer Thin Films," <i>Materials Chemistry: An Emerging Discipline</i> , pp. 211-230 (1995)	
	C5	Brisson, A., et al., "Quaternary Structure of the Acetylcholine Receptor," <i>Nature</i> , Vol. 315:474-477 (1985)	
	C6	Buck, Linda, et al., "A Novel Multigene Family May Encode Odorant Receptors: A Molecular Basis for Odor Recognition," <i>Cell</i> , Vol. 65:175-187 (1991)	
	C7	Burns, Mark A., et al., "An Integrated Nanoliter DNA Analysis Device," <i>Science</i> , Vol. 282:484-487 (1998)	
	C8	Cho, Charles Y., et al., "An Unnatural Biopolymer," <i>Science</i> , Vol. 261:1303-1305 (1993)	
	C9	Cornwell, Marilyn M., et al., "Increased Vinblastine Binding to Membrane Vesicles from Multidrug-resistant KB Cells," <i>The Journal of Biological Chemistry</i> , Vol. 261(17):7921-7928 (1986)	
	C10	Costello, M.J., et al., "Membranous Cytochrome c Oxidase, A Freeze-Fracture Electron Microscopic Analysis," <i>J. Mol. Biol.</i> , Vol. 162:131-156 (1982)	
Examiner Signature			Date Considered



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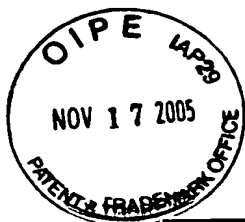
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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)				Application Number	10/003468-Conf. #4328
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				First Named Inventor	Fatemeh MOJTABAI
				Art Unit	1631
				Examiner Name	M. C. Lee
Sheet	2	of	4	Attorney Docket Number	FMI-001

C11	Craven, Bryan M., "Crystal Structure of Cholesterol Monohydrate," <i>Nature</i> , Vol. 260:727-729 (1976)	
C12	Cull, Millard G., et al., "Screening for Receptor Ligands Using Large Libraries of Peptides Linked to the C Terminus of the <i>lac</i> Repressor," <i>Proc. Natl. Acad. Sci. USA</i> , Vol. 89:1865-1869 (1992)	
C13	Cwirla, Steven E., et al., "Peptides on Phage: A Vast Library of Peptides for Identifying Ligands," <i>Proc. Natl. Acad. Sci. USA</i> , Vol. 87:6378-6382 (1990)	
C14	Darst, Seth A., et al., "Two-dimensional Crystals of Streptavidin on Biotinylated Lipid Layers and Their Interactions with Biotinylated Macromolecules," <i>Biophys. J.</i> , Vol. 59:387-396 (1991)	
C15	Demel, R.A., et al., "Relation Between Various Phospholipase Actions on Human Red Cell Membranes and the Interfacial Phospholipid Pressure in Monolayers," <i>Biochimica et Biophysica Acta</i> , Vol. 406:97-107 (1975)	
C16	Devlin, James J., et al., "Random Peptide Libraries: A Source of Specific Protein Binding Molecules," <i>Science</i> , Vol. 249:404-406 (1990)	
C17	Dewitt, Sheila Hobbs, et al., "Diversomers: An Approach to Nonpeptide, Nonoligomeric Chemical Diversity," <i>Proc. Natl. Acad. Sci. USA</i> , Vol. 90:6909-6913 (1993)	
C18	Erb, Eric, et al., "Recursive Deconvolution of Combinatorial Chemical Libraries," <i>Proc. Natl. Acad. Sci. USA</i> , Vol. 91:11422-11426 (1994)	
C19	Felici, Franco, et al., "Selection of Antibody Ligands from a Large Library of Oligopeptides Expressed on a Multivalent Exposition Vector," <i>J. Mol. Biol.</i> , Vol. 222:301-310 (1991)	
C20	Fodor, Stephen P.A., et al., "Multiplexed Biochemical Assays with Biological Chips," <i>Nature</i> , Vol. 364:555-556 (1993)	
C21	Frey, Terrence G., "Cytochrome c Oxidase: Structural Studies by Electron Microscopy of Two-Dimensional Crystals," <i>Microscopy Research and Technique</i> , Vol. 27:319-332 (1994)	
C22	Frey, Terrence G., et al., "Structure and Orientation of Cytochrome c Oxidase in Crystalline Membranes," <i>The Journal of Biological Chemistry</i> , Vol. 253(12):4389-4395 (1978)	
C23	Frey, Terrence G., et al., "Electron Microscopy of Cytochrome c Oxidase Crystals: Monomer-Dimer Relationship and Cytochrome c Binding Site," <i>J. Mol. Biol.</i> , Vol. 237:275-297 (1994)	
C24	Fuller, S.D., et al., "Structure of Cytochrome c Oxidase in Deoxycholate-derived Two-dimensional Crystals," <i>J. Mol. Biol.</i> , Vol. 134:305-327 (1979)	
C25	Gallop, Mark A., et al., "Applications of Combinatorial Technologies in Drug Discovery. 1. Background and Peptide Combinatorial Libraries," <i>Journal of Medicinal Chemistry</i> , Vol. 37(9):1233-1251 (1994)	
C26	Garavito, R. Michael, et al., "The Art of Crystallizing Membrane Proteins," <i>Methods in Enzymology</i> , Vol. 1(1):57-69 (1990)	
C27	Garavito, R. Michael, et al., "Crystallization of Membrane Proteins: A Minireview," <i>Journal of Crystal Growth</i> , Vol. 110:89-95 (1991)	
C28	Glaeser, Robert M., "Electron Crystallography of Biological Macromolecules," <i>Ann. Rev. Phys. Chem.</i> , Vol. 36:243-75 (1985)	
C29	Glaeser, Robert M., et al., "High-resolution Electron Crystallography of Protein Molecules," <i>Ultramicroscopy</i> , Vol. 52:478-486 (1993)	
C30	Goeddel, David V., "Systems for Heterologous Gene Expression," <i>Methods in Enzymology</i> , Vol. 185:3-7 (1990)	
C31	Gottesman, Susan, "Minimizing Proteolysis in <i>Escherichia coli</i> : Genetic Solutions," <i>Methods in Enzymology</i> , Vol. 185:119-129 (1990)	
C32	Hänggi-Mojtabai, Fatemeh, "Total Internal Reflection and Fluorescence Recovery after Photobleaching and Determination of Molecular Motion in Biological Membranes," Doctoral Thesis, University of Basel, Switzerland, pp. 61-63, 70-72 (1985)	
C33	Henderson, R., et al., "Arrangement of Cytochrome Oxidase Molecules in Two-dimensional Vesicle Crystals," <i>J. Mol. Biol.</i> , Vol. 112:631-648 (1977)	
C34	Hirai, Hisamaru, et al., "A Novel Putative Tyrosine Kinase Receptor Encoded by the <i>eph</i>	

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				Examiner Name	M. C. Lee
Sheet	3	of	4	Attorney Docket Number	FMI-001

	Gene," <i>Science</i> , Vol. 238:1717-1720 (1987)	
C35	Kornberg, Roger D., et al., "Two-dimensional Crystals of Proteins on Lipid Layers," <i>Current Opinion in Structural Biology</i> , Vol. 1:642-646 (1991)	
C36	Kühlbrandt, W., "Two-dimensional Crystallization of Membrane Proteins," <i>Quarterly Reviews of Biophysics</i> , Vol. 25(1):1-49 (1992)	
C37	Kurjan, Janet, et al., "Structure of a Yeast Pheromone Gene (MF $\alpha$ ): A Putative $\alpha$ -Factor Precursor Contains Four Tandem Copies of Mature $\alpha$ -Factor," <i>Cell</i> , Vol. 30:933-943 (1982)	
C38	Lam, Kit S., "Application of Combinatorial Library Methods in Cancer Research and Drug Discovery," <i>Anti-Cancer Drug Design</i> , Vol. 12:145-167 (1997)	
C39	Lam, Kit S., et al., "A new type of synthetic peptide library for identifying ligand-binding activity," <i>Nature</i> , Vol. 354:82-84 (1991)	
C40	Luckow, Verne A., et al., "High Level Expression of Nonfused Foreign Genes with <i>Autographa californica</i> Nuclear Polyhedrosis Virus Expression Vectors," <i>Virology</i> , Vol. 170:31-39 (1989)	
C41	Marx, Jean, et al., "Bad for the Heart, Bad for the Mind?" <i>Science</i> , Vol. 294:508-509 (2001)	
C42	McConnell, Harden M., "Structures and Transitions in Lipid Monolayers at the Air-Water Interface," <i>Annu. Rev. Phys. Chem.</i> , Vol. 42:171-95 (1991)	
C43	Mimms, Larry T., et al., "Phospholipid Vesicle Formation and Transmembrane Protein Incorporation Using Octyl Glucoside," <i>Biochemistry</i> , Vol. 20:833-840 (1981)	
C44	Moy, V.T., et al., "Molecular Order in Finite Two-dimensional Crystals of Lipid at the Air-Water Interface," <i>J. Phys. Chem.</i> , Vol. 92:5233-5238 (1988)	
C45	Newman, Richard H., "Two-dimensional Crystallization of Proteins on Lipid Monolayers," <i>Electron Microsc. Rev.</i> , Vol. 4:197-203 (1991)	
C46	Pattus, F., et al., "Spreading of Biomembranes at the Air/Water Interface," <i>Biochimica et Biophysica Acta</i> , Vol. 57:71-82 (1978)	
C47	Perrimon, Norbert, "Signalling Pathways Initiated by Receptor Protein Tyrosine Kinases in <i>Drosophila</i> ," <i>Current Opinion in Cell Biology</i> , Vol. 6:260-266 (1994)	
C48	Plowman, Gregory D., et al., "Ligand-specific Activation of HER4/p180erbB4, a Fourth Member of the Epidermal Growth Factor Receptor Family," <i>Proc. Natl. Acad. Sci. USA</i> , Vol. 90:1746-1750 (1993)	
C49	Rein ten Wolde, Pieter, et al., "Enhancement of Protein Crystal Nucleation by Critical Density Fluctuations," <i>Science</i> , Vol. 277:1975-1978 (1997)	
C50	Rosenberg, Mark F., et al., "Structure of the Multidrug Resistance P-glycoprotein to 2.5 nm Resolution Determined by Electron Microscopy and Image Analysis," <i>The Journal of Biological Chemistry</i> , Vol. 272(16):10685-10694 (1997)	
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Examiner Signature		Date Considered	
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**Complete if Known**

Application Number	10/003468-Conf. #4328
Filing Date	October 23, 2001
First Named Inventor	Fatemeh MOJTABAI
Art Unit	1631
Examiner Name	M. C. Lee
Attorney Docket Number	FMI-001

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